



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 111, DN none
Ordering No. 11146-PE01

Description

Flange	ISO-F 200
Actuator	Manual, handwheel
Feedthrough	Bellows

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		12 200 ls ⁻¹
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature	– Valve Body	≤ 150 °C (bake-out max. 24h)
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 150 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	– Valve Body	AISI 304 (1.4301)
	– Mechanism	AISI 316L (1.4404), AISI 304 (1.4301)
	– Bellows	AISI 316L (1.4404, 1.4435)
	– Bushing	Hydrocarbonate
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), vulcanized
Mounting position		any
Volume of pneumatic actuator		0.25 l / 0.0087 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G $\frac{1}{8}$ " ($\frac{1}{8}$ " NPT for USA)
Actuation time	– closing	2 s
	– opening	2 s
Weight		29 kg / 64 lbs

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